

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference OPP20040067	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/KR2004/003141	International filing date (day/month/year) 01 DECEMBER 2004 (01.12.2004)	Priority date (day/month/year) 01 DECEMBER 2003 (01.12.2003)	

International Patent Classification (IPC) or national classification and IPC

H04B 1/40(2006.01)i

Applicant

HANA MICRON CO., LTD. et al

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

- a. (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
- b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- Box No. I Basis of the report
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

Date of submission of the demand 30 JUNE 2005 (30.06.2005)	Date of completion of this report 25 JANUARY 2006 (25.01.2006)
Name and mailing address of the IPEA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer KJM, Dong Sung Telephone No. 82-42-481-5949 

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003141

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language English, which is the language of a translation furnished for the purposes of:

international search (under Rules 12.3 and 23.1(b))
 publication of the international application (under Rule 12.4)
 international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished

the description:
 pages _____ as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the claims:
 pages _____ as originally filed/furnished
 pages* _____ as amended (together with any statement) under Article 19
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the drawings:
 pages _____ as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, Nos. _____
 the drawings, sheets _____
 the sequence listing (*specify*) : _____
 any table(s) related to sequence listing (*specify*) : _____
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____
 the claims, Nos. _____
 the drawings, sheets _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*) : _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/003141

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-22	YES
	Claims		NO
Inventive step (IS)	Claims	1-22	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-22	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents.

D1 : KR 2002-0012880 A(Jung Seok-Hong, Kim Si-Hwan) 20 February 2002

D2 : KR 307362 Y(Park Sang-Ho) 15 March 2003

1.Novelty and Inventive Step (PCT Article 33(2)-(3)):

Claims 1-22 of the present invention relate to a portable terminal having an extended screen converting dual displays into one extended display by having a sub-display panel which is foldable with one side of a folder equipped with a main display panel by a hinge and to method of controlling screen display thereof and to a control device thereof.

On the other hand, D1 relates to a foldaway portable flat display panel which is provided to realize one large screen by unfolding a sub display panel, thereby provides various information and one enlarged screen. And D2 discloses a portable terminal to allow a user to use a large display by combining an sub-display with one side of a main display by a hinge.

But neither D1 nor D2 discloses technical components of display module for controlling the image of two panels able to functions independently when the sub-display arrangement is folded and functions as one extended screen when unfolded.

Therefore, the subject matter of claims 1-22 in the present invention fulfills the requirements of Article 33(2)-(3)PCT.

2. Industrial Applicability (PCT Article 33(4)) :

The subject matter of claims 1-22 fulfills the requirements of Article 33(4) PCT because it is industrially applicable.